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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-06-06 **Date: 17/12/2022**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer's Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-12-22

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/12/2022	17/12/2022	151.22 X 151.15 X 151.67	22857	8.548	425.8	18.6	18.4
2	Drain Side Wall Concrete	M20	10/12/2022	17/12/2022	150.93 X 149.01 X 149.32	22490	8.475	412.5	18.3	
3	Drain Side Wall Concrete	M20	10/12/2022	17/12/2022	149.38 X 151.71 X 150.61	22662	8.935	410.5	18.1	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-06-06 **Date: 07/01/2023**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer's Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-12-22

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/12/2022	07/01/2023	150.51 X 149.75 X 150.13	22538	8.686	535.4	23.8	23.4
2	Drain Side Wall Concrete	M20	10/12/2022	07/01/2023	151.00 X 149.03 X 151.19	22503	8.108	504.8	22.4	
3	Drain Side Wall Concrete	M20	10/12/2022	07/01/2023	149.23 X 150.70 X 149.07	22489	8.320	538.8	24.0	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-04-06-06 **Date: 17/12/2022**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer's Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-22
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/12/2022	17/12/2022	149.58 X 149.27 X 150.00	22327	8.522	404.4	18.1	18.4
2	Drain Side Wall Concrete	M20	10/12/2022	17/12/2022	150.13 X 150.41 X 150.08	22581	8.699	414.6	18.4	
3	Drain Side Wall Concrete	M20	10/12/2022	17/12/2022	149.44 X 150.71 X 149.29	22522	8.438	419.6	18.6	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-06-06** **Date: 07/01/2023**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer's Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-22
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	10/12/2022	07/01/2023	151.66 X 149.69 X 151.66	22702	8.732	532.7	23.5	23.3
2	Drain Side Wall Concrete	M20	10/12/2022	07/01/2023	151.74 X 149.50 X 150.64	22686	8.608	520.8	23.0	
3	Drain Side Wall Concrete	M20	10/12/2022	07/01/2023	150.85 X 150.90 X 151.64	22763	8.526	535.4	23.5	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2023-04-06-06** **Date: 07-01-23**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-23
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	04-01-23
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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ASSISTANT EXECUTIVE ENGINEER
T Dasarahalli Sub Division

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : CP-RW-2023-04-06-06 **Date: 07-01-23**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-01-23

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of Test : 04-01-23

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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ASSISTANT EXECUTIVE ENGINEER
T Dasarahalli Sub Division

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Date: 07-01-23

Lab ID	:	CP-RW-2023-04-06-06
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	04-01-23

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2023-04-06-06** **Date: 14-01-23**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer's Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-23
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	11-01-23

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	Min 45mm
2	Softening Point, °C	51.2	Min. 47°C
3	Ductility, cm	98	Min. 40cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2023-04-06-06 **Date: 23-01-23**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-01-23

Type of Mix : DBM-Plant (Dense Bituminous Macadam)

Date of Test : 21-01-23

Weight of Sample : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1750	2800	56.00	44.00	38-54
2.36	400	3200	64.00	36.00	28-42
0.3	1350	4550	91.00	9.00	7-21
0.075	250	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

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ASSISTANT EXECUTIVE ENGINEER
T Dasarahalli Sub Division

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	CP-RW-2023-04-06-06	**Date: 24-01-23**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.	
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.	
Customer Reference	:	EE/DD/W.O/1621/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	21-01-23	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	21-01-23	

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	15.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	15.0		
Strength	Aggregate Impact Value	19.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

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Certificate No.: TC-5548

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-04-06-06**	**Date: 24-01-23**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.	
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.	
Customer Reference	:	EE/DD/W.O/1621/2022-23	
Source of Sample	:	Hot Mix Plant, Bangalore	
Sample Condition	:	Satisfactory	
Date of Receipt	:	21-01-23	
Type of Mix	:	DBM (Dense Bituminous Mecadam)	
Date of Test	:	21-01-23	

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-04-06-06** **Date: 24-01-23**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-01-23
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of Test	:	21-01-23

Type of Binder	:	60/70
% of Binder Used	:	4.5%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	9.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2023-04-06-06 **Date: 30-01-23**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-01-23

Type of Mix : BC-Plant (Bituminous Concrete)

Date of Test : 28-01-23

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-04-06-06** **Date: 31-01-23**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-01-23
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	28-01-23

Type of Binder	:	60/70
% of Binder Used	:	6.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	12.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2023-04-06-06** **Date: 31-01-23**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-01-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	28-01-23

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-04-06-06** **Date: 31-01-23**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer Reference	:	EE/DD/W.O/1621/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	28-01-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	28-01-23

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2023-04-06-06	**Date: 04-02-23**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.	
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.	
Customer Reference	:	EE/DD/W.O/1621/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	03-02-23	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	03-02-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	479.5	479
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	5.6
5	Increase in weight of Filter Paper	W5=W4-W3	2	1.6
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	4.5	4.52
7	Average percentage	%	4.51	

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Lab ID : CP-RW-2023-04-06-06 Date: 04-02-23

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479.5

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	47	47	9.8	90.2	71-95
13.2	56	103	21.5	78.5	56-80
4.75	180	283	59.0	41.0	38-54
2.36	50	333	69.4	30.6	28-42
0.3	50	383	79.9	20.1	7-21
0.075	69	452	94.3	5.7	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	48	48	10.0	90.0	71-95
13.2	59	107	22.3	77.7	56-80
4.75	185	292	61.0	39.0	38-54
2.36	45	337	70.4	29.6	28-42
0.3	55	392	81.8	18.2	7-21
0.075	65	457	95.4	4.6	2-8

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2023-04-06-06**	**Date: 06-02-23**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.	
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.	
Customer Reference	:	EE/DD/W.O/1621/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	04-02-23	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	04-02-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	471.5	472
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	6.10	6.00
7	Average percentage	%	6.05	

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Lab ID : CP-RW-2023-04-06-06 **Date: 06-02-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.8	62.2	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.6	37.4	34-48
0.6	11	306	64.9	35.1	26-38
0.3	46	352	74.7	25.3	18-28
0.15	45	397	84.2	15.8	12-20
0.075	54	451	95.7	4.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	52	449	95.1	4.9	4-10

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Certificate No.: TC-5548

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2023-04-06-06** **Date: 06-02-23**
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.
Customer Reference	:	EE/DD/W.O/1621/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	04-02-23
Type of Mix	:	Tack coat
Date of Test	:	04-02-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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T Dasarahalli Sub Division

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2023-04-06-06	Date: 02-03-23
Customer	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	T Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.	
Agency	:	Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.	
Customer Reference	:	EE/DD/W.O/1621/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	01-03-23	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	01-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	479	479
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	5.8	5.7
5	Increase in weight of Filter Paper	W5=W4-W3	1.8	1.7
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	4.56	4.54
7	Average percentage	%	4.55	

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ASSISTANT EXECUTIVE ENGINEER
T Dasarahalli Sub Division

Lab ID : CP-RW-2023-04-06-06

Date: 02-03-23

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	49	49	10.2	89.8	71-95
13.2	57	106	22.1	77.9	56-80
4.75	182	288	60.1	39.9	38-54
2.36	53	341	71.2	28.8	28-42
0.3	51	392	81.8	18.2	7-21
0.075	68	460	96.0	4.0	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	45	45	9.4	90.6	71-95
13.2	55	100	20.9	79.1	56-80
4.75	181	281	58.7	41.3	38-54
2.36	43	324	67.6	32.4	28-42
0.3	59	383	80.0	20.0	7-21
0.075	63	446	93.1	6.9	2-8

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2023-04-06-06 **Date: 04-03-23**

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Desilting and resetting of drain and re asphalting Soap factory layout in Bagalagunte, ward no.14, Dasarahalli Sub Division.

Agency : Sri Shivakumar N M, #7, 2nd Block, Juganahalli, Rajajinagar, Bangalore.

Customer Reference : EE/DD/W.O/1621/2022-23

Source of Sample : Sample supplied by Agency

Date of Receipt : 02-03-23

Type of Mix : BC (Bituminous Concrete)

Date of Test : 02-03-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	472	471
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	5.8
5	Increase in weight of Filter Paper	W5=W4-W3	2	1.8
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	6.00	6.16
7	Average percentage	%	6.08	

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ASSISTANT EXECUTIVE ENGINEER
T Dasarahalli Sub Division

Lab ID : **CP-RW-2023-04-06-06** **Date: 04-03-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	64	70	14.8	85.2	70-88
4.75	114	184	39.0	61.0	53-71
2.36	85	269	57.0	43.0	42-58
1.18	30	299	63.3	36.7	34-48
0.6	12	311	65.9	34.1	26-38
0.3	47	358	75.8	24.2	18-28
0.15	46	404	85.6	14.4	12-20
0.075	48	452	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	64	72	15.3	84.7	70-88
4.75	114	186	39.5	60.5	53-71
2.36	84	270	57.3	42.7	42-58
1.18	32	302	64.1	35.9	34-48
0.6	13	315	66.9	33.1	26-38
0.3	47	362	76.9	23.1	18-28
0.15	46	408	86.6	13.4	12-20
0.075	40	448	95.1	4.9	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Agency/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

ASSISTANT EXECUTIVE ENGINEER
T Dasarahalli Sub Division

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